

Marc R Block

List of Publications by Year in descending order

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64
papers

4,649
citations

159585

30
h-index

102487

66
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68
all docs

68
docs citations

68
times ranked

4201
citing authors

#	ARTICLE	IF	CITATIONS
1	A fusion protein required for vesicle-mediated transport in both mammalian cells and yeast. <i>Nature</i> , 1989, 339, 355-359.	27.8	574
2	Purification of an N-ethylmaleimide-sensitive protein catalyzing vesicular transport.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 7852-7856.	7.1	504
3	Role of an N-ethylmaleimide-sensitive transport component in promoting fusion of transport vesicles with cisternae of the Golgi stack. <i>Cell</i> , 1988, 54, 221-227.	28.9	377
4	Vesicular transport between the endoplasmic reticulum and the Golgi stack requires the NEM-sensitive fusion protein. <i>Nature</i> , 1989, 339, 397-398.	27.8	294
5	Actin machinery and mechanosensitivity in invadopodia, podosomes and focal adhesions. <i>Journal of Cell Science</i> , 2009, 122, 3037-3049.	2.0	284
6	Conformation, Localization, and Integrin Binding of Talin Depend on Its Interaction with Phosphoinositides. <i>Journal of Biological Chemistry</i> , 2001, 276, 21217-21227.	3.4	283
7	Binding of an N-ethylmaleimide-sensitive fusion protein to Golgi membranes requires both a soluble protein(s) and an integral membrane receptor.. <i>Journal of Cell Biology</i> , 1989, 108, 1589-1596.	5.2	180
8	Podosome-type adhesions and focal adhesions, so alike yet so different. <i>European Journal of Cell Biology</i> , 2008, 87, 491-506.	3.6	141
9	Invadosome regulation by adhesion signaling. <i>Current Opinion in Cell Biology</i> , 2011, 23, 597-606.	5.4	122
10	Design of Biomimetic Cell-Interactive Substrates Using Hyaluronic Acid Hydrogels with Tunable Mechanical Properties. <i>Biomacromolecules</i> , 2012, 13, 1818-1827.	5.4	116
11	β 1A Integrin Is a Master Regulator of Invadosome Organization and Function. <i>Molecular Biology of the Cell</i> , 2010, 21, 4108-4119.	2.1	106
12	Osteoblast mineralization requires β 1 integrin/ICAP-1-dependent fibronectin deposition. <i>Journal of Cell Biology</i> , 2011, 194, 307-322.	5.2	106
13	Paxillin Phosphorylation Controls Invadopodia/Podosomes Spatiotemporal Organization. <i>Molecular Biology of the Cell</i> , 2008, 19, 633-645.	2.1	99
14	Integrin Cytoplasmic Domain-associated Protein 1 \pm (ICAP-1 \pm) Interacts Directly with the Metastasis Suppressor nm23-H2, and Both Proteins Are Targeted to Newly Formed Cell Adhesion Sites upon Integrin Engagement. <i>Journal of Biological Chemistry</i> , 2002, 277, 20895-20902.	3.4	94
15	β 1 integrin-dependent Rac/group I PAK signaling mediates YAP activation of Yes-associated protein 1 (YAP1) via NF2/merlin. <i>Journal of Biological Chemistry</i> , 2017, 292, 19179-19197.	3.4	91
16	Cell adaptive response to extracellular matrix density is controlled by ICAP-1-dependent β 1-integrin affinity. <i>Journal of Cell Biology</i> , 2008, 180, 427-441.	5.2	88
17	Disruption of Focal Adhesions by Integrin Cytoplasmic Domain-associated Protein-1 \pm . <i>Journal of Biological Chemistry</i> , 2003, 278, 6567-6574.	3.4	79
18	Lamellipodia nucleation by filopodia depends on integrin occupancy and downstream Rac1 signaling. <i>Experimental Cell Research</i> , 2008, 314, 478-488.	2.6	62

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19	Small angle neutron scattering of the mitochondrial ADPATP carrier protein in detergent. <i>Biochemical and Biophysical Research Communications</i> , 1982, 109, 471-477.	2.1	59
20	Defective osteoblast function in ICAP-1-deficient mice. <i>Development (Cambridge)</i> , 2007, 134, 2615-2625.	2.5	59
21	Calcium/Calmodulin-Dependent Protein Kinase II Controls Integrin $\alpha 5 \beta 1$ -Mediated Cell Adhesion through the Integrin Cytoplasmic Domain Associated Protein-1. <i>Biochemical and Biophysical Research Communications</i> , 1998, 252, 46-50.	2.1	53
22	Functional Interaction of Aurora-A and PP2A during Mitosis. <i>Molecular Biology of the Cell</i> , 2007, 18, 1233-1241.	2.1	51
23	New insights into Nm23 control of cell adhesion and migration. <i>Journal of Bioenergetics and Biomembranes</i> , 2003, 35, 81-87.	2.3	40
24	Nuclear Translocation of Integrin Cytoplasmic Domain-associated Protein 1 Stimulates Cellular Proliferation. <i>Molecular Biology of the Cell</i> , 2005, 16, 1859-1871.	2.1	35
25	Laminin-5-integrin interaction signals through PI 3-kinase and Rac1b to promote assembly of adherens junctions in HT-29 cells. <i>Journal of Cell Science</i> , 2006, 119, 31-46.	2.0	35
26	Cyclin-Dependent Kinase 2/Cyclin E Complex Is Involved in p120 Catenin (p120ctn)-Dependent Cell Growth Control: A New Role for p120ctn in Cancer. <i>Cancer Research</i> , 2007, 67, 9781-9790.	0.9	34
27	Single Cells Spreading on a Protein Lattice Adopt an Energy Minimizing Shape. <i>Physical Review Letters</i> , 2010, 105, 128101.	7.8	34
28	Substrate-site interactions in the membrane-bound adenine-nucleotide carrier as disclosed by ADP and ATP analogs. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1984, 767, 369-376.	1.0	33
29	Early enterocytic differentiation of HT-29 cells: biochemical changes and strength increases of adherens junctions. <i>Experimental Cell Research</i> , 2004, 299, 498-510.	2.6	33
30	Chemical modifications of atractyloside and bongkreic acid binding sites of the mitochondrial adenine nucleotide carrier. Are there distinct binding sites?. <i>Biochemistry</i> , 1981, 20, 2692-2699.	2.5	31
31	Interaction of naphthoyl-ADP a fluorescent ADP analog, with the ADP/ATP carrier protein in the mitochondrial membrane. <i>Biochemistry</i> , 1982, 21, 5451-5457.	2.5	31
32	Control of the $\alpha 5 \beta 1$ integrin/fibronectin interaction in vitro by the serine/threonine protein phosphatase calcineurin. <i>Biochemistry</i> , 1995, 34, 5104-5112.	2.5	29
33	Intracellular Processing of Talin Occurs within Focal Adhesions. <i>Experimental Cell Research</i> , 1995, 217, 149-156.	2.6	29
34	Differential inactivation of atractyloside and bongkreic acid binding sites on the adenine nucleotide carrier by ultraviolet light. <i>FEBS Letters</i> , 1979, 104, 425-430.	2.8	27
35	Use of 3'-O-naphthoyl-adenosine 5'-diphosphate to probe distinct conformational states of the membrane-bound ADP/ATP carrier. <i>Biochemistry</i> , 1983, 22, 2202-2208.	2.5	26
36	RhoA-dependent Switch between $\alpha 2 \beta 1$ and $\alpha 3 \beta 1$ Integrins Is Induced by Laminin-5 during Early Stage of HT-29 Cell Differentiation. <i>Molecular Biology of the Cell</i> , 2001, 12, 3268-3281.	2.1	26

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37	Internalization of the $\alpha 5 \beta 1$ Integrin Does Not Depend on "NPXY" Signals. <i>Biochemical and Biophysical Research Communications</i> , 1994, 199, 603-611.	2.1	25
38	Atractyloside and bongkreikic acid sites in the mitochondrial ADP/ATP carrier protein. <i>FEBS Letters</i> , 1981, 131, 213-218.	2.8	23
39	New Insights into Adhesion Signaling in Bone Formation. <i>International Review of Cell and Molecular Biology</i> , 2013, 305, 1-68.	3.2	23
40	Type, Density, and Presentation of Grafted Adhesion Peptides on Polysaccharide-Based Hydrogels Control Preosteoblast Behavior and Differentiation. <i>Biomacromolecules</i> , 2015, 16, 715-722.	5.4	23
41	Roles of paxillin family members in adhesion and ECM degradation coupling at invadosomes. <i>Journal of Cell Biology</i> , 2016, 213, 585-599.	5.2	23
42	$\beta 1$ integrins mediate the BMP2 dependent transcriptional control of osteoblast differentiation and osteogenesis. <i>PLoS ONE</i> , 2018, 13, e0196021.	2.5	22
43	Chemical radiolabeling of carboxyatractyloside by [¹⁴ C]acetic anhydride. <i>FEBS Letters</i> , 1980, 117, 335-340.	2.8	21
44	Unraveling ICAP-1 function: Toward a new direction?. <i>European Journal of Cell Biology</i> , 2006, 85, 275-282.	3.6	20
45	Dependence of the conformational state of the isolated adenine nucleotide carrier protein on the detergent used for solubilization. <i>Biochemistry</i> , 1986, 25, 374-379.	2.5	19
46	Calcium and Calmodulin-dependent Serine/Threonine Protein Kinase Type II (CaMKII)-mediated Intramolecular Opening of Integrin Cytoplasmic Domain-associated Protein-1 (ICAP-1 β) Negatively Regulates $\beta 1$ Integrins. <i>Journal of Biological Chemistry</i> , 2013, 288, 20248-20260.	3.4	19
47	Cooperativity between Integrin Activation and Mechanical Stress Leads to Integrin Clustering. <i>Biophysical Journal</i> , 2011, 100, 2595-2604.	0.5	18
48	Specificities of $\beta 1$ integrin signaling in the control of cell adhesion and adhesive strength. <i>European Journal of Cell Biology</i> , 2011, 90, 261-269.	3.6	14
49	[28] Purification of N-ethylmaleimide-sensitive fusion protein. <i>Methods in Enzymology</i> , 1992, 219, 300-309.	1.0	13
50	Adhesion of Mature Polyploid Megakaryocytes to Fibronectin Is Mediated by $\beta 1$ Integrins and Leads to Cell Damage. <i>Experimental Cell Research</i> , 1998, 242, 315-327.	2.6	13
51	Semi-intact CHO and endothelial cells: A tool to probe the control of integrin activity?. <i>Experimental Cell Research</i> , 1991, 192, 173-181.	2.6	10
52	Time-lapse contact microscopy of cell cultures based on non-coherent illumination. <i>Scientific Reports</i> , 2015, 5, 14532.	3.3	8
53	The mechano-sensitive response of $\beta 1$ integrin promotes SRC-positive late endosome recycling and activation of Yes-associated protein. <i>Journal of Biological Chemistry</i> , 2020, 295, 13474-13487.	3.4	8
54	Identification of Vinculin as a Pericentriolar Component in Mammalian Cells. <i>Experimental Cell Research</i> , 1995, 219, 399-406.	2.6	7

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55	Grafting an RGD motif onto an epidermal growth factor-like module: chemical synthesis and functional characterization of the chimeric molecule. <i>Chemical Biology and Drug Design</i> , 1999, 54, 415-426.	1.1	7
56	[52] Chemical modifications and active site labeling of the mitochondrial ADP/ATP carrier. <i>Methods in Enzymology</i> , 1986, 125, 658-670.	1.0	6
57	[50] Fluorescent probes of the mitochondrial ADP/ATP carrier protein. <i>Methods in Enzymology</i> , 1986, 125, 639-649.	1.0	6
58	Fibronectin receptors are functional on mitotic Chinese hamster ovary cells. <i>Biochemical and Biophysical Research Communications</i> , 1992, 189, 1429-1436.	2.1	4
59	Targeting Integrin-Dependent Adhesion and Signaling with 3-Arylquinoline and 3-Aryl-2-Quinolone Derivatives: A new Class of Integrin Antagonists. <i>PLoS ONE</i> , 2015, 10, e0141205.	2.5	4
60	An in vitro model giving access to adhesion plaques. <i>In Vitro Cellular & Developmental Biology</i> , 1992, 28, 17-23.	1.0	3
61	Cotranscription of two RNA coding for the cell adhesion regulator and its variant in Reh leukemia cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1996, 1315, 6-8.	3.8	2
62	Proteolysis leads to the appearance of the long form of α 23-endonexin in human platelets. <i>Experimental Cell Research</i> , 2005, 305, 427-435.	2.6	2
63	Excitable waves at the margin of the contact area between a cell and a substrate. <i>Physical Biology</i> , 2009, 6, 025010.	1.8	2
64	Osteoblast mineralization requires β 1 integrin/ICAP-1-dependent fibronectin deposition. <i>Journal of Experimental Medicine</i> , 2011, 208, i26-i26.	8.5	1